

INFANT MORTALITY: STATE SUMMARY

INFANT MORTALITY

INTRODUCTION

Purpose of Infant Mortality Surveillance

The rate of infant deaths, i.e. deaths to babies between birth and 1 year of age, is a basic measure of the health of a population. High infant mortality rates reflect unmet medical care needs and unfavorable environmental, economic, nutritional, educational, and sanitary conditions. Infant mortality surveillance is used to identify factors that put infants at high risk of death, so that medical, social, and economic interventions to reduce risk can be targeted effectively.

An increased risk of infant death is related to a number of factors, including extremes in maternal age at birth (under 19 or over 40 years), fewer than 2 years between births, birth under conditions of poor maternal health or poor nutrition, and use of chemical toxins such as alcohol, drugs, and cigarettes during pregnancy. Many of these factors also are associated with low birthweight. After the first month of life, poor infant nutrition, poor hygiene, and infectious diseases all increase the risk of infant mortality.

Source of Data: Certificate of Death

Infant mortality information presented in this report is gathered from data recorded on the *Certificate of Death* for deaths that occurred to infants born to Louisiana residents during the 1996 calendar year. All original death certificates flow to the Vital Records Registry in New Orleans.

Data are recorded on death certificates by funeral directors, who solicit demographic information from available next of kin, and by physicians or coroners, who record information on time, place, and cause of death. Louisiana law requires that funeral directors send death certificates to the Vital Records Registry within five days of occurrence, and that the identities of persons included in the death registry be kept confidential.

Death statistics are compiled in accordance with World Health Organization (WHO) regulations, which require member nations to classify causes of death according to the revision of the International Statistical Classification of Diseases in effect at the time of death. Deaths that occurred in 1996 are coded in accordance with the ninth revision (ICD-9).

All of the causes of death described in this report are ***underlying causes of death***, defined as the disease or injury that initiated the sequence of events leading to death. Secondary causes of death, which also are recorded on the death certificate, are not presented in this report.

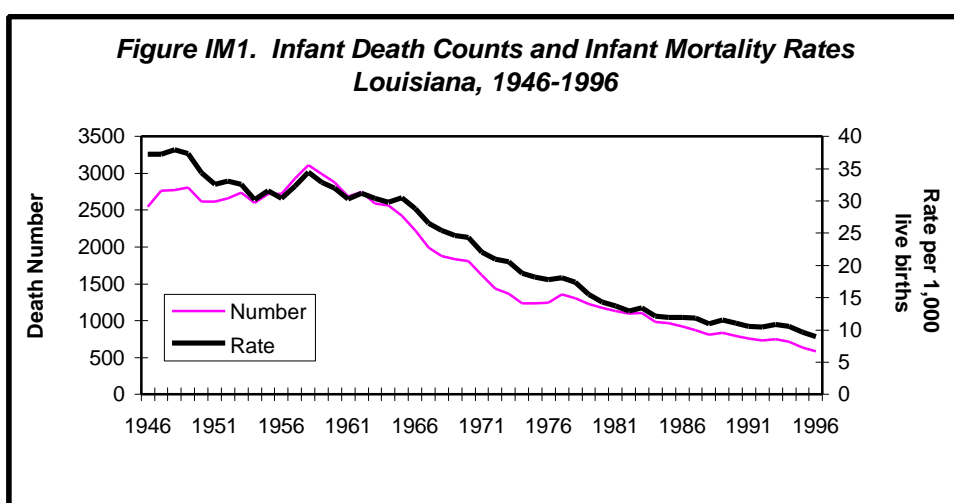
Unless otherwise noted, all statistics reported here are for deaths to infants born to Louisiana residents, regardless of the state in which the death occurred. The Vital Statistics Cooperative Program, a nationwide system of information interchange among all states and territories, makes possible the reporting of out of state deaths to Louisiana residents.

Death registration in Louisiana is considered to be 100% complete, since a death certificate must be filed before a burial permit may be obtained. However, it is possible that death registration is not carried out accurately in cases of infants dying shortly after birth.

INFANT MORTALITY COUNTS AND RATES

Infant Death Counts and Mortality Rates

- In 1996, 586 infants born to Louisiana residents died. This was 53 fewer than the 639 infants who died in 1995 (Figure IM1, Table IM1).
- Louisiana's 1996 infant mortality rate declined to 9.0 per 1,000 live births, a decrease of 7.2% from the 1995 rate of 9.7, and a 14.3% decrease from the 1994 rate of 10.5 per 1,000 live births. The 1996 rate is the lowest ever recorded in the state (Figure IM1, Table IM1).

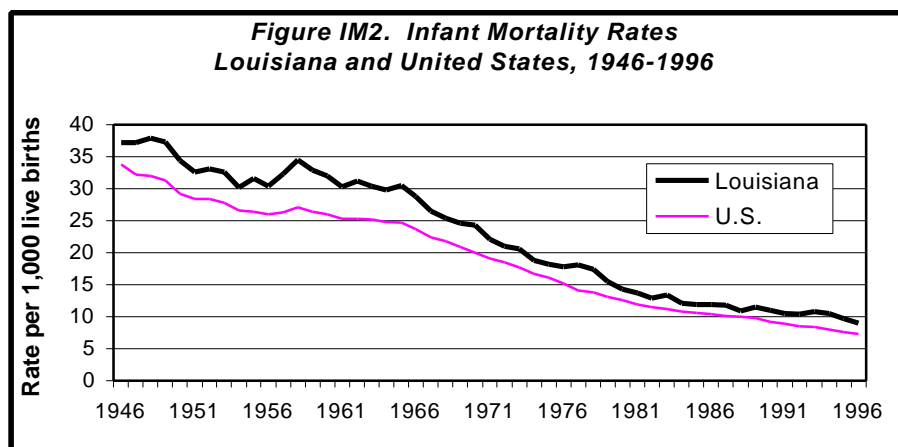


To help identify factors that lead to infant deaths, infant mortality is divided into two time periods based on the baby's age at death. Deaths occurring during the first 27 days of life are labeled **neonatal deaths**; those occurring from 28 days through 364 days of age are **postneonatal deaths**. In general, neonatal deaths reflect problems with heredity, prenatal development, and the birth process; postneonatal deaths are influenced by environmental factors, such as nutrition, hygiene, and accidents. The distinction between these two periods, however, has been blurred in recent years because of increased survival of premature infants due to advances in neonatology.

A number of different rates are used to describe deaths among children during the first year of life. The most often reported is the **infant mortality rate**, which measures deaths to infants under 1 year of age. This rate is calculated by dividing the number of deaths occurring in one year to children under the age of 1 year by the total number of live births during that year, then multiplying the quotient by 1,000. The rate is expressed as the number of infant deaths per 1,000 live births. Other rates include:

- **neonatal mortality rate** – deaths to infants under 28 days of age, per 1,000 live births.
- **postneonatal mortality rate** – deaths to infants aged 28 days through 364 days, per 1,000 live births.
- **hebdomadal mortality rate** – deaths to infants under 7 days of age, per 1,000 live births.
- **perinatal mortality rate** – stillbirths (fetal deaths) + deaths to infants under 7 days of age, per 1,000 stillbirths + live births.

- Since the mid 1960s, infant mortality rates for both Louisiana and the United States have **declined steadily**, due largely to advances in the development of antibiotics, infectious disease vaccines, and neonatology (Figure IM2, Table IM1).
- Despite declining rates, **Louisiana's 1996 infant mortality rate of 9.0 per 1,000 live births remained higher than the national rate of 7.3** (Figure IM2, Table IM1).



Source: Louisiana State Center for Health Statistics
National Center for Health Statistics

**Table IM1. Counts and Rates of Infant Deaths
Louisiana and United States, 1980-1996**

Year	Louisiana				United States		
	Number	Infant Mortality Rate*	Neonatal Mortality Rate**	Postneonatal Mortality Rate***	Infant Mortality Rate*	Neonatal Mortality Rate**	Postneonatal Mortality Rate***
1980	1175	14.3	10.0	4.3	12.6	8.5	4.1
1981	1129	13.7	9.2	4.5	11.9	8.0	3.9
1982	1094	12.9	8.4	4.5	11.5	7.7	3.8
1983	1108	13.4	8.9	4.5	11.2	7.3	3.9
1984	984	12.1	8.0	4.1	10.8	7.0	3.8
1985	966	11.9	7.7	4.2	10.6	7.0	3.7
1986	925	11.9	7.7	4.1	10.4	6.7	3.6
1987	870	11.8	7.7	4.1	10.1	6.5	3.6
1988	808	10.9	7.0	4.0	10.0	6.3	3.6
1989	834	11.5	7.3	4.2	9.8	6.2	3.6
1990	796	11.0	6.7	4.4	9.2	5.8	3.4
1991	754	10.5	6.6	3.9	8.9	5.6	3.4
1992	736	10.4	6.6	3.9	8.5	5.4	3.1
1993	752	10.8	6.8	4.0	8.4	5.3	3.1
1994	715	10.5	7.0	3.5	8.0	5.1	2.9
1995	639	9.7	6.4	3.3	7.6	4.9	2.7
1996	586	9.0	5.6	3.4	7.3	4.8	2.5

*Infant Mortality Rate = deaths to infants under 1 year, per 1,000 live births

**Neonatal Mortality Rate = deaths to infants under 28 days, per 1,000 live births

***Postneonatal Mortality Rate = deaths to infants aged 28 days through 364 days, per 1,000 live births

Source: Louisiana State Center for Health Statistics, National Center for Health Statistics

Infant Mortality by Infant Race

- Of the 586 infant deaths to Louisiana residents in 1996, 241 (41.1%) occurred among whites, 337 (57.5%) among African-Americans, and 8 (1.4%) among other races (Table IM8).
- For all measures of infant mortality, African-American rates are approximately double those of whites (Table IM2). This racial difference in mortality rates has existed for many years at both the state and national level (Figure IM3, Table IM3).

**Table IM2. Infant Mortality Rates by Age at Death and Infant Race
Louisiana, 1996**

Race	Rate* by Age (in Days) at Death						Combined Rates			
	Under 1	1-6	7-13	14-20	21-27	28-364	Hebdomadal**	Neonatal***	Perinatal†	Infant††
All	3.3	1.1	0.5	0.4	0.3	3.4	4.4	5.6	13.0	9.0
White	2.0	1.0	0.4	0.3	0.3	2.5	3.0	3.9	9.7	6.5
Black	5.1	1.2	0.8	0.5	0.4	4.8	6.3	8.0	17.7	12.7
Other	2.8	1.4	-	-	-	1.4	4.1	4.1	9.6	5.5

*Rate per 1,000 live births in age category

**Hebdomadal mortality rate = deaths to infants under 7 days, per 1,000 live births

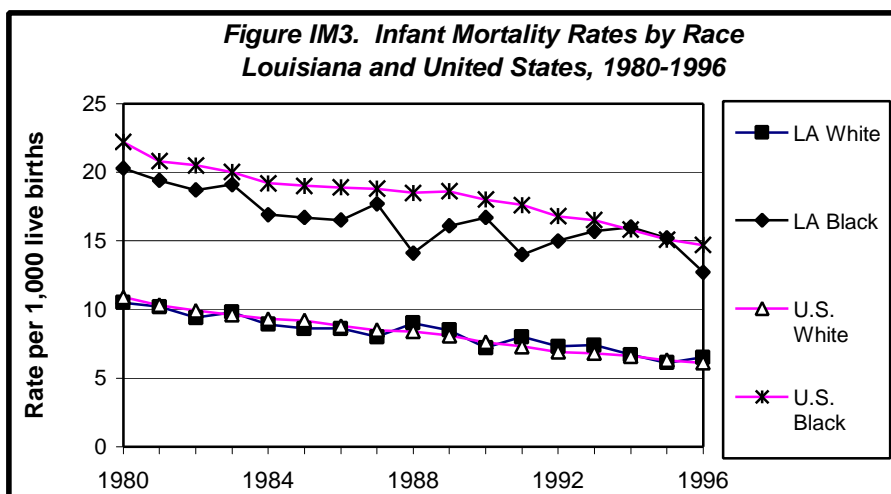
***Neonatal mortality rate = deaths to infants under 28 days, per 1,000 live births

†Perinatal mortality rate = stillbirths + deaths to infants under 7 days, per 1,000 stillbirths + live births

††Infant mortality rate = deaths to infants under 1 year, per 1,000 live births

"-"Indicates no death occurred in these categories

- With the exception of the past 2 years (1994-1995), Louisiana's African-American infant mortality rates have been lower than the national rates. In 1996, however, the state's African-American rates again fell below the national level. Louisiana and United States infant mortality rates among whites historically have been very similar (Figure IM3, Table IM3).



Source: Louisiana State Center for Health Statistics
National Center for Health Statistics

**Table IM3. Mortality Rates in Infants, by Infant Race
Louisiana and United States, 1980-1996**

Year	Infant Mortality Rate*				Neonatal Mortality Rate**				Postneonatal Mortality Rate***			
	Louisiana		United States		Louisiana		United States		Louisiana		United States	
	White	Black	White	Black	White	Black	White	Black	White	Black	White	Black
1980	10.5	20.3	10.9	22.2	7.3	14.2	7.4	14.6	3.2	6.1	3.5	7.6
1981	10.2	19.4	10.3	20.8	6.9	13.0	7.0	14.0	3.3	6.4	3.4	6.8
1982	9.4	18.7	9.9	20.5	6.3	11.7	6.7	13.6	3.1	7.0	3.2	6.9
1983	9.8	19.1	9.6	20.0	6.6	12.5	6.3	12.9	3.2	6.6	3.3	7.0
1984	8.9	16.9	9.3	19.2	6.0	11.2	6.1	12.3	2.9	5.7	3.2	6.8
1985	8.6	16.7	9.2	19.0	5.9	10.5	6.0	12.6	2.7	6.2	3.2	6.4
1986	8.6	16.5	8.8	18.9	5.9	10.3	5.7	12.3	2.7	6.2	3.1	6.6
1987	8.0	17.7	8.5	18.8	5.1	11.7	5.4	12.3	2.9	6.0	3.1	6.4
1988	9.0	14.1	8.4	18.5	5.6	9.2	5.3	12.1	3.4	4.9	3.1	6.5
1989	8.5	16.1	8.1	18.6	5.5	10.0	5.1	11.9	3.0	6.1	2.9	6.7
1990	7.2	16.7	7.6	18.0	4.4	10.0	4.8	11.6	2.8	6.7	2.8	6.4
1991	8.0	14.0	7.3	17.6	5.3	8.5	4.5	11.2	2.7	5.5	2.8	6.3
1992	7.3	15.0	6.9	16.8	4.5	9.6	4.3	10.8	2.8	5.4	2.6	6.0
1993	7.4	15.7	6.8	16.5	4.5	10.0	4.3	10.7	2.9	5.7	2.5	5.8
1994	6.7	16.0	6.6	15.8	5.0	11.0	4.2	10.2	1.7	5.0	2.4	5.6
1995	6.1	15.2	6.3	15.1	4.1	10.0	4.1	9.8	2.0	5.2	2.2	5.3
1996	6.5	12.7	6.1	14.7	3.9	8.0	4.0	9.6	2.5	4.8	2.1	5.1

*Infant Mortality Rate = deaths to infants under 1 year, per 1,000 live births

**Neonatal Mortality Rate = deaths to infants under 28 days, per 1,000 live births

***Postneonatal Mortality Rate = deaths to infants aged 28 days through 364 days, per 1,000 live births

Source: Louisiana State Center for Health Statistics

National Center for Health Statistics.

Infant Mortality by Infant Gender and Race

- As in past years, **1996 Louisiana infant mortality rates for African-Americans of both genders were higher than their white counterparts** (Figure IM4, Table IM4).
- **Rates for African-American males were higher than those for both African-American females and whites of both genders** (Figure IM4, Table IM4).
- **Since the beginning of the decade, infant mortality rates have fallen for African-American males and females and for white females. With the exception of 1991, rates for white males have remained stable** (Figure IM4, Table IM4).

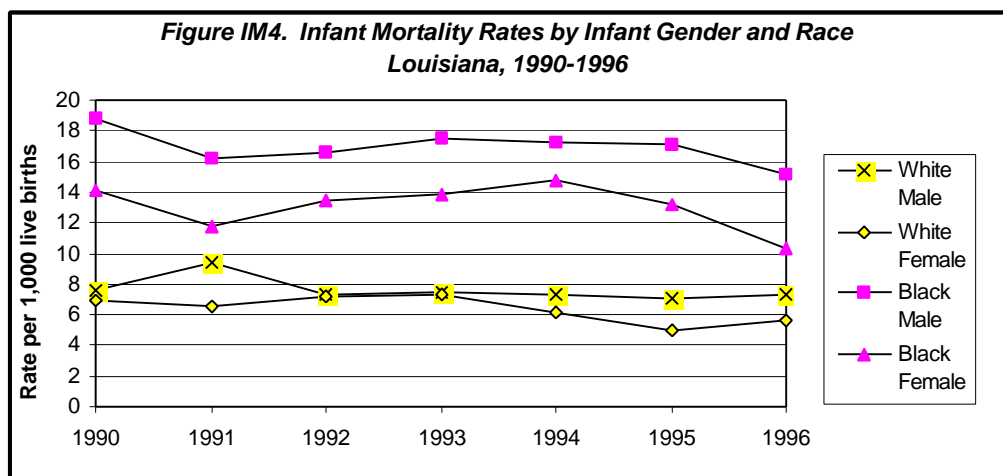


Table IM4. Infant Mortality Rates* by Infant Gender and Race Louisiana, 1990-1996					
Year	Total	White		Black	
		Male	Female	Male	Female
1990	11.0	7.6	6.9	18.8	14.1
1991	10.5	9.4	6.6	16.2	11.7
1992	10.4	7.3	7.2	16.6	13.4
1993	10.8	7.4	7.3	17.5	13.9
1994	10.5	7.3	6.1	17.2	14.8
1995	9.7	7.1	5.0	17.1	13.2
1996	9.0	7.3	5.6	15.1	10.3

*Rate per 1,000 race/sex-specific live births

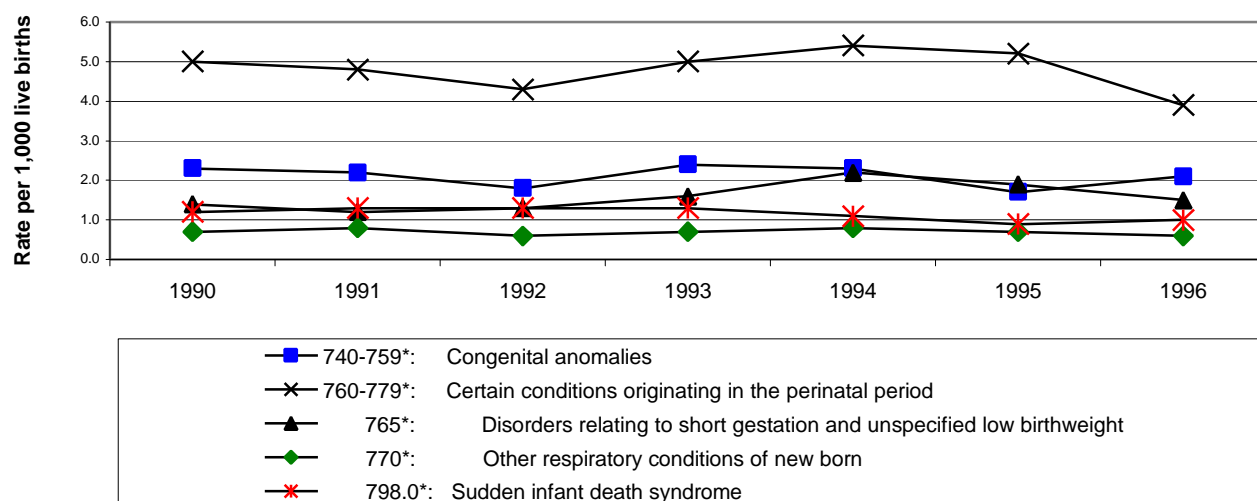
CAUSES OF INFANT DEATH

Leading Causes of Infant Death

- **Perinatal conditions, congenital anomalies, and sudden infant death syndrome historically have been the leading causes of death among Louisiana's infants** (Tables IM5 and IM6, Figure IM5).
- **37% of all infant deaths (215 deaths) occurred within the first day of life**, primarily from perinatal conditions and congenital anomalies (Tables IM5 and IM8).
- **38% of infant deaths (222 deaths) occurred between the 28th and 365th day of life**, with the leading causes being sudden infant death syndrome, congenital anomalies, and perinatal conditions (Tables IM5 and IM8).

Table IM5. Death Counts for Leading Causes of Infant Deaths, by Age at Death Louisiana, 1996		
Cause of Death (ICD-9 Code)	Age at Death, in Days	
	Under 1 day	28 to 365 days
Congenital anomalies (740-759)	43	41
Perinatal conditions (760-779)	170	17
Short gestation/Low birthweight (765)	88	2
Other newborn respiratory conditions (770)	18	9
III-defined conditions (780-799)	0	64
Sudden infant death syndrome (798.0)	0	61

**Figure IM5. Infant Mortality Rates for Leading Causes of Infant Death
Louisiana, 1990-1996**



*ICD-9 Code

Table IM6. Infant Mortality Rates* by Leading Causes of Infant Death Louisiana, 1990-1996						
Year	Congenital Anomalies (740-759**)	Perinatal Conditions			III-Defined Conditions	
		All (760-779**)	Short Gestation/ Low Birthweight (765**)	Other Newborn Respiratory Conditions (770**)	All (780-799**)	Sudden Infant Death Syndrome (798**)
1990	2.3	5.0	1.4	0.7	1.4	1.2
1991	2.2	4.8	1.2	0.8	1.5	1.3
1992	1.8	4.3	1.3	0.6	1.4	1.3
1993	2.4	5.0	1.6	0.7	1.4	1.3
1994	2.3	5.4	2.2	0.8	1.2	1.1
1995	1.7	5.2	1.9	0.7	0.9	0.9
1996	2.1	3.9	1.5	0.6	1.1	1.0

*Rate per 1,000 live births

**ICD-9 Code

Leading Causes of Infant Death by Infant Race and Infant Gender

- African-American infant mortality rates for deaths from perinatal conditions are more than double those of whites (Tables IM7 and IM8).
- With the exception of deaths from short gestation/low birthweight, infant mortality rates for the leading causes of infant death are higher for African-American males than for whites and African-American females (Tables IM7 and IM8).

Table IM7. Infant Mortality Rates* by Leading Causes of Infant Death, Infant Race, and Infant Gender Louisiana, 1990-1996						
Race/Gender	Congenital Anomalies (740-759**)	Perinatal Conditions			Ill-Defined Conditions	
		All (760-779**)	Short Gestation/ Low Birthweight (765**)	Other Newborn Respiratory Conditions (770**)	All (780-799**)	Sudden Infant Death Syndrome (798**)
White Male	2.1	2.6	0.8	0.6	1.1	1.0
White Female	1.9	2.0	0.7	0.1	0.8	0.8
Black Male	2.7	7.2	2.6	1.3	1.7	1.7
Black Female	1.8	5.3	2.7	0.6	0.9	0.9

*Rate per 1,000 live births

**ICD-9 Code

Selected Causes of Infant Death

Table IM8 gives details of 1996 counts and rates of infant deaths by causes of death, infant race, and infant gender.

Table IM8. Infant Death (Exclusive of Stillbirths) by Selected Causes, Race, Gender, and Age Louisiana, 1996									
Cause of Death and Icd-9 List Number	Rate*	Race Sex	Total	Age at Death in Days					
				Under 1	1-6	7-13	14-20	21-27	28-364
Total	899.0	ALL	586	215	71	35	23	20	222
	734.8	WM	140	44	24	8	5	4	55
	555.5	WF	101	32	12	6	6	6	39
	1511.9	BM	202	78	18	14	10	8	74
	1027.2	BF	135	57	15	7	2	2	52
	396.3	OM	3	1	1	-	-	-	1
	724.6	OF	5	3	1	-	-	-	1

* Rate per 100,000 live births

(Table IM8 continues on the next page)

Table IM8 (continued). Infant Death (Exclusive Of Stillbirths) By Selected Causes, Race, Gender and Age Louisiana Residents, 1996

Cause of Death and Icd-9 List Number	Rate*	Race Sex	Total	Age at Death in Days					
				Under 1	1-6	7-13	14-20	21-27	28-364
Certain intestinal infections-(008-009)	16.9	ALL	11	-	-	2	-	1	8
	15.7	WM	3	-	-	1	-	-	2
	-	WF	-	-	-	-	-	-	-
	37.4	BM	5	-	-	1	-	1	3
	22.8	BF	3	-	-	-	-	-	3
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Whooping cough-(033)	-	ALL	-	-	-	-	-	-	-
	-	WM	-	-	-	-	-	-	-
	-	WF	-	-	-	-	-	-	-
	-	BM	-	-	-	-	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Meningococcal infection-(036)	1.5	ALL	1	-	-	-	-	-	1
	-	WM	-	-	-	-	-	-	-
	-	WF	-	-	-	-	-	-	-
	5.5	BM	1	-	-	-	-	-	1
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Septicemia-(038)	15.3	ALL	10	-	-	1	-	-	9
	15.7	WM	3	-	-	1	-	-	2
	5.5	WF	1	-	-	-	-	-	1
	29.9	BM	4	-	-	-	-	-	4
	15.2	BF	2	-	-	-	-	-	2
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Viral diseases-(045-079)	-	ALL	-	-	-	-	-	-	-
	-	WM	-	-	-	-	-	-	-
	-	WF	-	-	-	-	-	-	-
	-	BM	-	-	-	-	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Congenital syphilis-(090)	-	ALL	-	-	-	-	-	-	-
	-	WM	-	-	-	-	-	-	-
	-	WF	-	-	-	-	-	-	-
	-	BM	-	-	-	-	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-

* Rate per 100,000 live births

(Table IM8 continues on the next page)

Table IM8 (continued). Infant Death (Exclusive Of Stillbirths) By Selected Causes, Race, Gender and Age Louisiana Residents, 1996									
Cause of Death and Icd-9 List Number	Rate*	Race Sex	Total	Age at Death in Days					
				Under 1	1-6	7-13	14-20	21-27	28-364
Remainder of infectious and parasitic diseases- (001-007,010-032,034-035,037, 039-041,080-088,091-139)	4.6	ALL	3	-	-	-	-	1	2
	5.2	WM	1	-	-	-	-	-	1
	5.5	WF	1	-	-	-	-	-	1
	7.5	BM	1	-	-	-	-	1	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues- (140-208)	1.5	ALL	1	-	-	-	-	-	1
	-	WM	-	-	-	-	-	-	-
	5.5	WF	1	-	-	-	-	-	1
	-	BM	-	-	-	-	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature-(210-239)	-	ALL	-	-	-	-	-	-	-
	-	WM	-	-	-	-	-	-	-
	-	WF	-	-	-	-	-	-	-
	-	BM	-	-	-	-	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Diseases of thymus gland- (254)	-	ALL	-	-	-	-	-	-	-
	-	WM	-	-	-	-	-	-	-
	-	WF	-	-	-	-	-	-	-
	-	BM	-	-	-	-	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Cystic fibrosis-(277.0)	-	ALL	-	-	-	-	-	-	-
	-	WM	-	-	-	-	-	-	-
	-	WF	-	-	-	-	-	-	-
	-	BM	-	-	-	-	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Diseases of blood and blood-forming organs- (280-289)	3.1	ALL	2	-	-	1	1	-	-
	-	WM	-	-	-	-	-	-	-
	5.5	WF	1	-	-	-	1	-	-
	7.5	BM	1	-	-	1	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-

* Rate per 100,000 live births

(Table IM8 continues on the next page)

Table IM8 (continued). Infant Death (Exclusive Of Stillbirths) By Selected Causes, Race, Gender and Age Louisiana Residents, 1996									
Cause of Death and Icd-9 List Number	Rate*	Race Sex	Total	Age at Death in Days					
				Under 1	1-6	7-13	14-20	21-27	28-364
Meningitis-(320-322)		- ALL	-	-	-	-	-	-	-
		- WM	-	-	-	-	-	-	-
		- WF	-	-	-	-	-	-	-
		- BM	-	-	-	-	-	-	-
		- BF	-	-	-	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Other diseases of nervous system and sense organs- (323-389)	12.3	ALL	8	1	-	-	-	-	7
		- WM	-	-	-	-	-	-	-
	5.5	WF	1	-	-	-	-	-	1
	37.4	BM	5	1	-	-	-	-	4
	15.2	BF	2	-	-	-	-	-	2
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Acute upper respiratory infections-(460-465)	1.5	ALL	1	-	-	-	-	-	1
		- WM	-	-	-	-	-	-	-
		- WF	-	-	-	-	-	-	-
	7.5	BM	1	-	-	-	-	-	1
		- BF	-	-	-	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Bronchitis and bronchiolitis-(466,490-491)	4.6	ALL	3	-	-	-	-	-	3
	10.5	WM	2	-	-	-	-	-	2
		- WF	-	-	-	-	-	-	-
	7.5	BM	1	-	-	-	-	-	1
		- BF	-	-	-	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Pneumonia and influenza- (480-487)	24.5	ALL	16	-	-	-	-	-	16
	21.0	WM	4	-	-	-	-	-	4
	5.5	WF	1	-	-	-	-	-	1
	52.4	BM	7	-	-	-	-	-	7
	30.4	BF	4	-	-	-	-	-	4
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Pneumonia-(480-486)	24.5	ALL	16	-	-	-	-	-	16
	21.0	WM	4	-	-	-	-	-	4
	5.5	WF	1	-	-	-	-	-	1
	52.4	BM	7	-	-	-	-	-	7
	30.4	BF	4	-	-	-	-	-	4
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-

* Rate per 100,000 live births

(Table IM8 continues on the next page)

Table IM8 (continued). Infant Death (Exclusive Of Stillbirths) By Selected Causes, Race, Gender and Age Louisiana Residents, 1996									
Cause of Death and Icd-9 List Number	Rate*	Race Sex	Total	Age at Death in Days					
				Under 1	1-6	7-13	14-20	21-27	28-364
Influenza-(487)		- ALL	-	-	-	-	-	-	-
		- WM	-	-	-	-	-	-	-
		- WF	-	-	-	-	-	-	-
		- BM	-	-	-	-	-	-	-
		- BF	-	-	-	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Remainder of diseases of respiratory system-(470-478,492-519)	10.7	ALL	7	-	2	-	-	1	4
	21.0	WM	4	-	1	-	-	-	3
		- WF	-	-	-	-	-	-	-
	22.5	BM	3	-	1	-	-	1	1
		- BF	-	-	-	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Hernia of abdominal cavity and intestinal obstruction without mention of hernia-(550-553,560)	3.1	ALL	2	1	-	-	1	-	-
		- WM	-	-	-	-	-	-	-
	5.5	WF	1	-	-	-	1	-	-
		- BM	-	-	-	-	-	-	-
	7.6	BF	1	1	-	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Gastritis, duodenitis, and noninfective enteritis and colitis-(535,555-558)	1.5	ALL	1	-	-	-	1	-	-
		- WM	-	-	-	-	-	-	-
		- WF	-	-	-	-	-	-	-
		- BM	-	-	-	-	-	-	-
	7.6	BF	1	-	-	-	1	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Remainder of diseases of digestive system-(520-534,536-543,562-579)	7.7	ALL	5	-	1	-	1	-	3
	5.2	WM	1	-	-	-	1	-	-
		- WF	-	-	-	-	-	-	-
	15.0	BM	2	-	-	-	-	-	2
	15.2	BF	2	-	1	-	-	-	1
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Congenital anomalies-(740-759)	208.6	ALL	136	43	26	13	6	7	41
	204.7	WM	39	17	9	3	2	2	6
	192.5	WF	35	9	5	3	2	5	11
	269.4	BM	36	12	6	4	2	-	12
	182.6	BF	24	5	5	3	-	-	11
		- OM	-	-	-	-	-	-	-
	289.9	OF	2	-	1	-	-	-	1

* Rate per 100,000 live births

(Table IM8 continues on the next page)

Table IM8 (continued). Infant Death (Exclusive Of Stillbirths) By Selected Causes, Race, Gender and Age Louisiana Residents, 1996									
Cause of Death and Icd-9 List Number	Rate*	Race Sex	Total	Age at Death in Days					
				Under 1	1-6	7-13	14-20	21-27	28-364
Anencephalus and similar anomalies-(740)	10.7	ALL	7	4	1	-	1	-	1
	5.2	WM	1	1	-	-	-	-	-
	11.0	WF	2	1	-	-	1	-	-
	7.5	BM	1	-	-	-	-	-	1
	22.8	BF	3	2	1	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Spina bifida-(741)	-	ALL	-	-	-	-	-	-	-
	-	WM	-	-	-	-	-	-	-
	-	WF	-	-	-	-	-	-	-
	-	BM	-	-	-	-	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Congenital hydrocephalus-(742.3)	6.1	ALL	4	1	-	1	-	-	2
	5.2	WM	1	1	-	-	-	-	-
	-	WF	-	-	-	-	-	-	-
	22.5	BM	3	-	-	1	-	-	2
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Other congenital anomalies of central nervous system and eye-(742.0-742.2,742.4-742.9,743)	9.2	ALL	6	2	1	1	-	1	1
	10.5	WM	2	1	-	1	-	-	-
	11.0	WF	2	-	1	-	-	1	-
	-	BM	-	-	-	-	-	-	-
	15.2	BF	2	1	-	-	-	-	1
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Congenital anomalies of heart-(745-746)	55.2	ALL	36	5	8	5	2	2	14
	68.2	WM	13	3	3	2	1	1	3
	49.5	WF	9	1	2	1	1	1	3
	59.9	BM	8	1	3	1	-	-	3
	45.7	BF	6	-	-	1	-	-	5
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Other congenital anomalies of circulatory system-(747)	9.2	ALL	6	-	2	1	-	1	2
	10.5	WM	2	-	-	-	-	1	1
	11.0	WF	2	-	1	1	-	-	-
	15.0	BM	2	-	1	-	-	-	1
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-

* Rate per 100,000 live births

(Table IM8 continues on the next page)

Table IM8 (continued). Infant Death (Exclusive Of Stillbirths) By Selected Causes, Race, Gender and Age Louisiana Residents, 1996									
Cause of Death and Icd-9 List Number	Rate*	Race Sex	Total	Age at Death in Days					
				Under 1	1-6	7-13	14-20	21-27	28-364
Congenital anomalies of respiratory system-(748)	32.2	ALL	21	10	4	3	1	-	3
	15.7	WM	3	3	-	-	-	-	-
	27.5	WF	5	4	-	1	-	-	-
	67.4	BM	9	3	2	1	1	-	2
	30.4	BF	4	-	2	1	-	-	1
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Congenital anomalies of digestive system-(749-751)	6.1	ALL	4	-	-	-	-	-	4
	5.2	WM	1	-	-	-	-	-	1
	5.5	WF	1	-	-	-	-	-	1
	7.5	BM	1	-	-	-	-	-	1
	7.6	BF	1	-	-	-	-	-	1
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Congenital anomalies of genitourinary system-(752-753)	10.7	ALL	7	6	1	-	-	-	-
	21.0	WM	4	3	1	-	-	-	-
	5.5	WF	1	1	-	-	-	-	-
	15.0	BM	2	2	-	-	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Congenital anomalies of musculoskeletal system-(754-756)	15.3	ALL	10	3	-	2	1	2	2
	10.5	WM	2	1	-	-	1	-	-
	11.0	WF	2	-	-	-	-	2	-
	22.5	BM	3	2	-	1	-	-	-
	22.8	BF	3	-	-	1	-	-	2
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Down's syndrome-(758.0)	6.1	ALL	4	1	-	-	-	-	3
	5.2	WM	1	-	-	-	-	-	1
	5.5	WF	1	1	-	-	-	-	-
	15.0	BM	2	-	-	-	-	-	2
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Other chromosomal anomalies-(758.1-758.9)	23.0	ALL	15	4	5	-	1	-	5
	26.2	WM	5	2	3	-	-	-	-
	16.5	WF	3	-	-	-	-	-	3
	22.5	BM	3	2	-	-	1	-	-
	15.2	BF	2	-	1	-	-	-	1
	-	OM	-	-	-	-	-	-	-
	289.9	OF	2	-	1	-	-	-	1

* Rate per 100,000 live births

(Table IM8 continues on the next page)

Table IM8 (continued). Infant Death (Exclusive Of Stillbirths) By Selected Causes, Race, Gender and Age Louisiana Residents, 1996									
Cause of Death and Icd-9 List Number	Rate*	Race Sex	Total	Age at Death in Days					
				Under 1	1-6	7-13	14-20	21-27	28-364
All other and unspecified congenital anomalies- (744, 757, 759)	24.5	ALL	16	7	4	-	-	1	4
	21.0	WM	4	2	2	-	-	-	-
	38.5	WF	7	1	1	-	-	1	4
	15.0	BM	2	2	-	-	-	-	-
	22.8	BF	3	2	1	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Certain conditions originating in the perinatal period (760-779)	394.3	ALL	257	170	34	18	12	6	17
	257.2	WM	49	27	11	3	1	1	6
	203.5	WF	37	23	6	3	2	1	2
	718.5	BM	96	65	9	8	8	2	4
	532.6	BF	70	51	7	4	1	2	5
	264.2	OM	2	1	1	-	-	-	-
	434.8	OF	3	3	-	-	-	-	-
Newborn affected by maternal conditions which may be unrelated to present pregnancy-(760)	4.6	ALL	3	3	-	-	-	-	-
	-	WM	-	-	-	-	-	-	-
	-	WF	-	-	-	-	-	-	-
	7.5	BM	1	1	-	-	-	-	-
	15.2	BF	2	2	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Newborn affected by maternal complications of pregnancy-(761)	38.4	ALL	25	21	3	-	1	-	-
	31.5	WM	6	6	-	-	-	-	-
	33.0	WF	6	5	1	-	-	-	-
	52.4	BM	7	7	-	-	-	-	-
	45.7	BF	6	3	2	-	1	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Newborn affected by complications of placenta, cord, and membranes-(762)	26.1	ALL	17	15	-	-	-	-	2
	15.7	WM	3	1	-	-	-	-	2
	11.0	WF	2	2	-	-	-	-	-
	44.9	BM	6	6	-	-	-	-	-
	38.0	BF	5	5	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	144.9	OF	1	1	-	-	-	-	-
Newborn affected by other complications of labor and delivery-(763)	-	ALL	-	-	-	-	-	-	-
	-	WM	-	-	-	-	-	-	-
	-	WF	-	-	-	-	-	-	-
	-	BM	-	-	-	-	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-

* Rate per 100,000 live births

(Table IM8 continues on the next page)

Table IM8 (continued). Infant Death (Exclusive Of Stillbirths) By Selected Causes, Race, Gender and Age Louisiana Residents, 1996									
Cause of Death and Icd-9 List Number	Rate*	Race Sex	Total	Age at Death in Days					
				Under 1	1-6	7-13	14-20	21-27	28-364
Slow fetal growth and fetal malnutrition-(764)		- ALL	-	-	-	-	-	-	-
		- WM	-	-	-	-	-	-	-
		- WF	-	-	-	-	-	-	-
		- BM	-	-	-	-	-	-	-
		- BF	-	-	-	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Disorders relating to short gestation and unspecified low birthweight-(765)	151.9	ALL	99	88	4	3	1	1	2
	78.7	WM	15	14	-	-	1	-	-
	71.5	WF	13	11	1	-	-	-	1
	262.0	BM	35	31	1	2	-	1	-
	266.3	BF	35	31	2	1	-	-	1
	132.1	OM	1	1	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Disorders relating to long gestation and high birthweight-(766)		- ALL	-	-	-	-	-	-	-
		- WM	-	-	-	-	-	-	-
		- WF	-	-	-	-	-	-	-
		- BM	-	-	-	-	-	-	-
		- BF	-	-	-	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Birth trauma-(767)	6.1	ALL	4	-	4	-	-	-	-
	10.5	WM	2	-	2	-	-	-	-
	5.5	WF	1	-	1	-	-	-	-
		- BM	-	-	-	-	-	-	-
	7.6	BF	1	-	1	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Intrauterine hypoxia and birth asphyxia-(768)	10.7	ALL	7	2	2	3	-	-	-
		- WM	-	-	-	-	-	-	-
	22.0	WF	4	-	2	2	-	-	-
	22.5	BM	3	2	-	1	-	-	-
		- BF	-	-	-	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Fetal distress in liveborn infant-(768.2-768.4)	1.5	ALL	1	1	-	-	-	-	-
		- WM	-	-	-	-	-	-	-
		- WF	-	-	-	-	-	-	-
	7.5	BM	1	1	-	-	-	-	-
		- BF	-	-	-	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-

* Rate per 100,000 live births

(Table IM8 continues on the next page)

Table IM8 (continued). Infant Death (Exclusive Of Stillbirths) By Selected Causes, Race, Gender and Age Louisiana Residents, 1996									
Cause of Death and Icd-9 List Number	Rate*	Race Sex	Total	Age at Death in Days					
				Under 1	1-6	7-13	14-20	21-27	28-364
Birth asphyxia-(768.5-768.9)	9.2	ALL	6	1	2	3	-	-	-
	-	WM	-	-	-	-	-	-	-
	22.0	WF	4	-	2	2	-	-	-
	15.0	BM	2	1	-	1	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Respiratory distress syndrome-(769)	30.7	ALL	20	8	7	3	1	-	1
	31.5	WM	6	2	3	1	-	-	-
	11.0	WF	2	-	-	1	1	-	-
	52.4	BM	7	4	3	-	-	-	-
	38.0	BF	5	2	1	1	-	-	1
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Other respiratory conditions of newborn-(770)	58.3	ALL	38	18	7	3	-	1	9
	57.7	WM	11	3	4	1	-	1	2
	11.0	WF	2	-	1	-	-	-	1
	127.2	BM	17	10	2	1	-	-	4
	60.9	BF	8	5	-	1	-	-	2
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Infections specific to the perinatal period-(771)	24.5	ALL	16	1	3	4	4	2	2
	15.7	WM	3	-	-	1	-	-	2
	11.0	WF	2	1	-	-	-	1	-
	59.9	BM	8	-	2	2	4	-	-
	15.2	BF	2	-	-	1	-	1	-
	132.1	OM	1	-	1	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Neonatal hemorrhage-(772)	7.7	ALL	5	1	2	-	2	-	-
	15.7	WM	3	1	2	-	-	-	-
	-	WF	-	-	-	-	-	-	-
	15.0	BM	2	-	-	-	2	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Hemolytic disease of newborn, due to isoimmunization, and other perinatal jaundice-(773-774)	1.5	ALL	1	1	-	-	-	-	-
	-	WM	-	-	-	-	-	-	-
	5.5	WF	1	1	-	-	-	-	-
	-	BM	-	-	-	-	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-

* Rate per 100,000 live births

(Table IM8 continues on the next page)

Table IM8 (continued). Infant Death (Exclusive Of Stillbirths) By Selected Causes, Race, Gender and Age Louisiana Residents, 1996									
Cause of Death and Icd-9 List Number	Rate*	Race Sex	Total	Age at Death in Days					
				Under 1	1-6	7-13	14-20	21-27	28-364
Syndrome of "infant of a diabetic mother" and neonatal diabetes mellitus- (775.0-775.1)		- ALL	-	-	-	-	-	-	-
		- WM	-	-	-	-	-	-	-
		- WF	-	-	-	-	-	-	-
		- BM	-	-	-	-	-	-	-
		- BF	-	-	-	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Hemorrhagic disease of newborn-(776.0)		- ALL	-	-	-	-	-	-	-
		- WM	-	-	-	-	-	-	-
		- WF	-	-	-	-	-	-	-
		- BM	-	-	-	-	-	-	-
		- BF	-	-	-	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
All other and ill-defined conditions originating in the perinatal period- (775.2-775.9,776.1-779)	33.7	ALL	22	12	2	2	3	2	1
		- WM	-	-	-	-	-	-	-
	22.0	WF	4	3	-	-	1	-	-
	74.8	BM	10	4	1	2	2	1	-
	45.7	BF	6	3	1	-	-	1	1
		- OM	-	-	-	-	-	-	-
	289.9	OF	2	2	-	-	-	-	-
Symptoms, signs and ill-defined conditions-(780-799)	105.9	ALL	69	-	1	-	1	3	64
	105.0	WM	20	-	-	-	1	1	18
	77.0	WF	14	-	-	-	-	-	14
	172.1	BM	23	-	-	-	-	2	21
	91.3	BF	12	-	1	-	-	-	11
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Sudden infant death syndrome-(798.0)	101.2	ALL	66	-	1	-	1	3	61
	94.5	WM	18	-	-	-	1	1	16
	77.0	WF	14	-	-	-	-	-	14
	164.7	BM	22	-	-	-	-	2	20
	91.3	BF	12	-	1	-	-	-	11
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-
Symptoms, signs and all other ill-defined conditions- (780-797,798.1-799)	4.6	ALL	3	-	-	-	-	-	3
	10.5	WM	2	-	-	-	-	-	2
		- WF	-	-	-	-	-	-	-
	7.5	BM	1	-	-	-	-	-	1
		- BF	-	-	-	-	-	-	-
		- OM	-	-	-	-	-	-	-
		- OF	-	-	-	-	-	-	-

* Rate per 100,000 live births

(Table IM8 continues on the next page)

Table IM8 (continued). Infant Death (Exclusive Of Stillbirths) By Selected Causes, Race, Gender and Age Louisiana Residents, 1996									
Cause of Death and Icd-9 List Number	Rate*	Race Sex	Total	Age at Death in Days					
				Under 1	1-6	7-13	14-20	21-27	28-364
Accidents and adverse effects-(e800-e949)	29.1	ALL	19	-	-	-	-	-	19
	21.0	WM	4	-	-	-	-	-	4
	5.5	WF	1	-	-	-	-	-	1
	37.4	BM	5	-	-	-	-	-	5
	60.9	BF	2	-	-	-	-	-	8
	132.1	OM	1	-	-	-	-	-	1
	-	OF	-	-	-	-	-	-	-
Inhalation and ingestion of food or other object causing obstruction of respiratory tract or suffocation- (e911-e912)	9.2	ALL	6	-	-	-	-	-	6
	5.2	WM	1	-	-	-	-	-	1
	-	WF	-	-	-	-	-	-	-
	15.0	BM	2	-	-	-	-	-	2
	15.2	BF	2	-	-	-	-	-	2
	132.1	OM	1	-	-	-	-	-	1
	-	OF	-	-	-	-	-	-	-
Accidental mechanical suffocation-(e913)	12.3	ALL	8	-	-	-	-	-	8
	10.5	WM	2	-	-	-	-	-	2
	-	WF	-	-	-	-	-	-	-
	15.0	BM	2	-	-	-	-	-	2
	30.4	BF	4	-	-	-	-	-	4
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Other accidental causes and adverse effects- (e800-e910,e914-e949)	7.7	ALL	5	-	-	-	-	-	5
	5.2	WM	1	-	-	-	-	-	1
	5.5	WF	1	-	-	-	-	-	1
	7.5	BM	1	-	-	-	-	-	1
	15.2	BF	2	-	-	-	-	-	2
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Homicide-(e960-e969)	10.7	ALL	7	-	-	-	-	-	7
	15.7	WM	3	-	-	-	-	-	3
	-	WF	-	-	-	-	-	-	-
	22.5	BM	3	-	-	-	-	-	3
	7.6	BF	1	-	-	-	-	-	1
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Child battering and other maltreatment-(e967)	3.1	ALL	2	-	-	-	-	-	2
	5.2	WM	1	-	-	-	-	-	1
	-	WF	-	-	-	-	-	-	-
	-	BM	-	-	-	-	-	-	-
	7.6	BF	1	-	-	-	-	-	1
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-

* Rate per 100,000 live births

(Table IM8 continues on the next page)

Table IM8 (continued). Infant Death (Exclusive Of Stillbirths) By Selected Causes, Race, Gender and Age Louisiana Residents, 1996										
Cause of Death and Icd-9 List Number	Rate*	Race Sex	Total	Age at Death in Days						
				Under 1	1-6	7-13	14-20	21-27	28-364	
Other homicide- (e960-e966,e968-e969)	7.7	ALL	5	-	-	-	-	-	-	5
	10.5	WM	2	-	-	-	-	-	-	2
	-	WF	-	-	-	-	-	-	-	-
	22.5	BM	3	-	-	-	-	-	-	3
	-	BF	-	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-	-
All other causes-(residual)	41.4	ALL	27	-	7	-	-	1	-	19
	36.7	WM	7	-	3	-	-	-	-	4
	33.0	WF	6	-	1	-	-	-	-	5
	67.4	BM	9	-	2	-	-	1	-	6
	38.0	BF	5	-	1	-	-	-	-	4
	-	OM	-	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-	-

*RATE PER 100,000 LIVE BIRTHS